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| l3 and l4 | 14 |

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US Pre-Grant Publication Full-Text Database
JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

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l3 and l4

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| USPT | vaccine near5 antigen | 3023 | <u>L4</u> |
| USPT | l1 and l2 | 516 | <u>L3</u> |
| USPT | library near6 recombinant | 2636 | <u>L2</u> |
| USPT | cell near5 specific near5 bind\$ | 4105 | <u>L1</u> |

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Search Results - Record(s) 1 through 14 of 14 returned.

☐ 1. Document ID: US 6239116 B1

L5: Entry 1 of 14

File: USPT

May 29, 2001

US-PAT-NO: 6239116

DOCUMENT-IDENTIFIER: US 6239116 B1

TITLE: Immunostimulatory nucleic acid molecules

| | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|

☐ 2. Document ID: US 6238676 B1

L5: Entry 2 of 14

File: USPT

May 29, 2001

US-PAT-NO: 6238676

DOCUMENT-IDENTIFIER: US 6238676 B1

TITLE: Presentation of hydrophobic antigens to T-cells by CD1 molecules

| | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|

☐ 3. Document ID: US 6193966 B1

L5: Entry 3 of 14

File: USPT

Feb 27, 2001

US-PAT-NO: 6193966

DOCUMENT-IDENTIFIER: US 6193966 B1

TITLE: Therapeutic multispecific compounds comprised of anti-Fc.alpha. receptor antibodies

| | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|

☒ 4. Document ID: US 6190662 B1

L5: Entry 4 of 14

File: USPT

Feb 20, 2001

US-PAT-NO: 6190662

DOCUMENT-IDENTIFIER: US 6190662 B1

TITLE: Materials and methods relating to the attachment and display of substances on cell surfaces

| | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|

☐ 5. Document ID: US 6153430 A

L5: Entry 5 of 14

File: USPT

Nov 28, 2000

US-PAT-NO: 6153430

DOCUMENT-IDENTIFIER: US 6153430 A

TITLE: Nucleic acid encoding mesothelin, a differentiation antigen present on mesothelium, mesotheliomas and ovarian cancers

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|
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☐ 6. Document ID: US 6110707 A

L5: Entry 6 of 14

File: USPT

Aug 29, 2000

US-PAT-NO: 6110707

DOCUMENT-IDENTIFIER: US 6110707 A

TITLE: Recombinant expression of proteins from secretory cell lines

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|
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☐ 7. Document ID: US 6083502 A

L5: Entry 7 of 14

File: USPT

Jul 4, 2000

US-PAT-NO: 6083502

DOCUMENT-IDENTIFIER: US 6083502 A

TITLE: Mesothelium antigen and methods and kits for targeting it

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|
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☐ 8. Document ID: US 5922845 A

L5: Entry 8 of 14

File: USPT

Jul 13, 1999

US-PAT-NO: 5922845

DOCUMENT-IDENTIFIER: US 5922845 A

TITLE: Therapeutic multispecific compounds comprised of anti-Fc.alpha. receptor antibodies

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|
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☐ 9. Document ID: US 5912143 A

L5: Entry 9 of 14

File: USPT

Jun 15, 1999

US-PAT-NO: 5912143

DOCUMENT-IDENTIFIER: US 5912143 A

TITLE: Polynucleotides encoding a human mage protein homolog

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|

☐ 10. Document ID: US 5858670 A

L5: Entry 10 of 14

File: USPT

Jan 12, 1999

US-PAT-NO: 5858670

DOCUMENT-IDENTIFIER: US 5858670 A

TITLE: Bio-oligomer libraries and a method of use thereof

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|
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☐ 11. Document ID: US 5853737 A

L5: Entry 11 of 14

File: USPT.

Dec 29, 1998

US-PAT-NO: 5853737

DOCUMENT-IDENTIFIER: US 5853737 A

TITLE: Method for inducing a CD1-restricted immune response

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|
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☒ 12. Document ID: US 5679347 A

L5: Entry 12 of 14

File: USPT.

Oct 21, 1997

US-PAT-NO: 5679347

DOCUMENT-IDENTIFIER: US 5679347 A

TITLE: Methods of isolating CD1-presented antigens, vaccines comprising CD1-presented antigens, and cell lines for use in said methods

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|
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☐ 13. Document ID: US 5650489 A

L5: Entry 13 of 14

File: USPT

Jul 22, 1997

US-PAT-NO: 5650489

DOCUMENT-IDENTIFIER: US 5650489 A

TITLE: Random bio-oligomer library, a method of synthesis thereof, and a method of use thereof

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|
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☐ 14. Document ID: US 5403484 A

L5: Entry 14 of 14

File: USPT

Apr 4, 1995

US-PAT-NO: 5403484

DOCUMENT-IDENTIFIER: US 5403484 A

TITLE: Viruses expressing chimeric binding proteins

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KMC | Draw Desc | Image |
|------|-------|----------|-------|--------|----------------|------|-----------|--------|-----|-----------|-------|
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http://westbrs:8820/bin/gate.exe?f=LOC&state=akail7.6&ref=5&dbname=USPT&ESNAME=TI

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14

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TI

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(FILE 'HOME' ENTERED AT 19:08:11 ON 06 JUN 2001)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 19:08:25 ON 06 JUN 2001

L1 16059 S CELL(5A)SPECIFIC(5A)BIND?
L2 3381 S LIBRARY(6A)RECOMBINANT
L3 16460 S VACCINE(6A)ANTIGEN
L4 1 S L1 AND L2 AND L3
L5 5 S L1 AND L2
L6 4 S L5 AND ANTIGEN
L7 2 DUP REM L6 (2 DUPLICATES REMOVED)

=> d bib ab 1-2 17

L7 ANSWER 1 OF 2 MEDLINE DUPLICATE 1
AN 2001097825 MEDLINE
DN 20534750 PubMed ID: 11082187
TI Isolation and characterization of recombinant antibody fragments against CDC2a from Arabidopsis thaliana.
AU Eeckhout D; Fiers E; Sienaert R; Snoeck V; Depicker A; De Jaeger G
CS Vakgroep Moleculaire Genetica, Departement Plantengenetica, Vlaams Interuniversitair Instituut voor Biotechnologie, Universiteit Gent, Belgium.
SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (2000 Dec) 267 (23) 6775-83.
Journal code: EMZ. ISSN: 0014-2956.
CY GERMANY: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200102
ED Entered STN: 20010322
Last Updated on STN: 20010322
Entered PubMed: 20010102
Entered Medline: 20010201
AB In order to obtain recombinant antibody fragments that bind the cell-cycle protein CDC2a from Arabidopsis thaliana (CDC2aAt), two phage display libraries of single-chain variable (scFv) fragments were constructed. One library was derived from mice immunized with recombinant CDC2aAt N-terminally fused to a His6-tag (His-CDC2aAt) and the other was made out of an anti-PSTAIRE hybridoma cell line. Six specific His-CDC2aAt-binding phage clones (3D1, 3D2, 3D10, 3D25, 4D21 and 4D47) were isolated by panning. The isolated monoclonal phage clones, as well as the soluble scFv fragments produced in the periplasm of Escherichia coli, bind His-CDC2aAt in ELISA and on Western blots. Moreover, four clones (3D1, 3D2, 3D10 and 4D21) detect specifically CDC2aAt from Arabidopsis cell suspensions on Western blots. Clone 4D21 binds the PSTAIRE epitope, whereas the 3D1, 3D2 and 3D10 clones bind, as yet unidentified, epitopes of CDC2aAt. Furthermore, the accumulation and antigen-binding activity of these scFv fragments in a reducing environment were assessed. No interaction could be shown between the scFv fragments and CDC2aAt in a yeast two-hybrid assay. However, after transient expression of the scFv fragments in the cytosol

of tobacco leaves, three of six scFv fragments (3D1, 3D2 and 3D10) accumulated in the plant cytosol and ELISA results indicate that these scFv fragments retained antigen-binding activity.

L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2001 ACS

AN 1999:529282 CAPLUS

DN 131:154480

TI Methods for obtaining a **cell-specific binding** molecule that increases uptake and/or specificity of a genetic vaccine to a target cell

IN Punnonen, Juha; Stemmer, Willem P. C.; Howard, Russell; Patten, Phillip A.

PA Maxygen, Inc., USA

SO PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 4

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|---|----------|-----------------|----------|
| PI | WO 9941402 | A2 | 19990819 | WO 1999-US3023 | 19990210 |
| | WO 9941402 | A3 | 19991111 | | |
| | W: | AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, | | | |

TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9926742 A1 19990830 AU 1999-26742 19990210

EP 1053343 A2 20001122 EP 1999-906949 19990210

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

PRAI US 1998-21769 A 19980211

US 1998-74294 P 19980211

WO 1999-US3023 W 19990210

AB The present invention provides methods for obtaining a **cell-specific binding** mol. that is useful for increasing uptake or specificity of a genetic vaccine to a target cell. The methods involve (1) creating a library of **recombinant** polynucleotides encoding polypeptides with a nucleic acid **binding** domain and polypeptides with a **cell-specific binding** domain; and (2) screening said library for **recombinant** polynucleotides that encode mols. that can bind to a nucleic acid and also to a cell-specific receptor. Specifically, the invention describes the use of the DNA shuffling method to evolve receptor

binding components of enterotoxins derived from *Vibrio cholerae* and enterotoxigenic strains of *E. coli* for improved attachment to cell

surface receptors and for improved entry to and transport across the cells of the intestinal epithelium. An antigen of interest can be fused to these toxin subunits to facilitate the screening of evolved enterotoxin subunits, and also to facilitate oral delivery of proteins. The invention

also provides methods of evolving a bacteriophage-derived vaccine delivery

vehicle to obtain a delivery vehicle having enhanced ability to enter a target cell.

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